

In the Claims:

The listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) A method comprising:

injuring a vessel region, said vessel region comprising a bypass vessel adjacent to a primary vessel leading to a target area for blood flow, said primary vessel having an occlusion to blood flow; and

delivering an arteriogenic factor to said ~~vessel region~~ bypass vessel in a medically effective manner to structurally enlarge an existing blood vessel.
2. (Original) The method of claim 1 wherein said delivery comprises providing said arteriogenic factor to said vessel region for a duration ranging from about one week to about five weeks.
3. (Original) The method of claim 1 further comprising providing a second delivery of said arteriogenic factor to said vessel region at about 3 to about 10 days after said delivering.
4. (Original) The method of claim 1 wherein said delivery comprises:

providing a syringe to accommodate said arteriogenic factor; and

advancing said arteriogenic chemical factor from said syringe to said vessel region.
5. (Original) The method of claim 1 wherein said delivery comprises:

providing a needle catheter to accommodate said arteriogenic factor; and

advancing said arteriogenic factor from said needle catheter to said vessel region.

6. (Original) The method of claim 1 wherein said delivery comprises:
providing a porous balloon catheter having a porous balloon to accommodate said arteriogenic factor; and
advancing said arteriogenic factor from said porous balloon to said vessel region via pores of said porous balloon.

7. (Canceled).

8. (Currently Amended) The method of ~~claim 7~~ claim 1 wherein said arteriogenic ~~physical~~ factor is a needle catheter, said delivery comprising advancing a needle of said needle catheter to said vessel region, said needle to puncture said vessel region.

9. (Canceled).

10. (Currently Amended) The method of ~~claim 7~~ claim 1 wherein said arteriogenic ~~thermal~~ factor includes a catheter with a distal portion cooled to between about 0° C and about 10° C.

11. (Currently Amended) The method of ~~claim 7~~ claim 1 wherein said arteriogenic ~~thermal~~ factor includes a catheter with a distal portion heated to a range from about 40° C to about 90°C.

12. – 23. (Canceled)

24. (Currently Amended) A method of structurally enlarging ~~an existing blood vessel~~ a bypass vessel adjacent to a primary vessel, said method comprising:

injuring said ~~existing blood~~ bypass vessel; and
advancing a distal portion of a catheter to said ~~existing blood~~ bypass vessel; and
delivering an arteriogenic factor in a medically effective manner to said ~~existing blood~~ bypass vessel via said catheter.

25. – 32. (Canceled)

33. (New) The method of claim 24 wherein delivering further comprises providing said arteriogenic factor to said bypass vessel for a duration ranging from about one week to about five weeks.

34. (New) The method of claim 24 wherein delivering further comprises providing a second delivery of said arteriogenic factor to said bypass vessel at about 3 to about 10 days after a first delivering of said arteriogenic factor.

34. (New) The method of claim 24 wherein delivering further comprises:
providing a syringe to accommodate said arteriogenic factor; and
advancing said arteriogenic chemical factor from said syringe to said bypass vessel.

35. (New) The method of claim 24 wherein delivering further comprises:
providing a needle catheter to accommodate said arteriogenic factor; and
advancing said arteriogenic factor from said needle catheter to said bypass vessel.

36. (New) The method of claim 24 wherein delivering further comprises:
providing a porous balloon catheter having a porous balloon to accommodate
said arteriogenic factor; and
advancing said arteriogenic factor from said porous balloon to said bypass vessel
via pores of said porous balloon.